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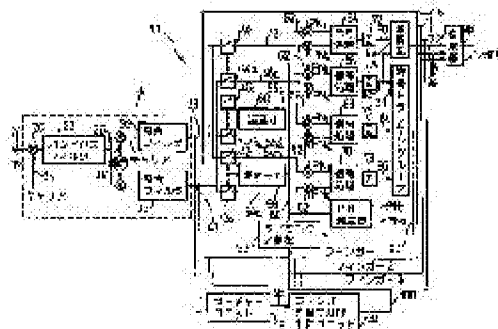
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(54) RAKE RECEIVER, AND METHOD FOR ALLOCATING AND ADJUSTING FINGER PROCESSING ELEMENT IN RAKE RECEIVER

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for allocating and adjusting a finger processing element by which timing misalignment is reduced in a CDMA receiver and to provide the RAKE receiver.

SOLUTION: A CDMA rake receiver 10 is provided with an antenna 12 which receives a spread spectrum RF signal that has a multi-pass component forming a multi-pass profile, a finger processing element 16 which is allocated to a specific propagation pass of the RF signal and also demodulates the propagation pass, a searcher unit 18 which acquires a series of measurement values from the multi-pass profile and has a prescribed timing resolution that separates adjacent measurement value from there, a finger allocation and control unit 20 which reads a series of measurement values, derives a timing offset having higher resolution than the prescribed timing resolution of the unit 18 and allocates the element 16 to the best candidate pass by using it and an integrating device 22 which integrates demodulated signals and produces an output signal.



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